



CR2032

FOR MERCURY FREE LITHIUM MANGANESE DIOXIDE BUTTON CELL GREEN LITHIUM BUTTON CELL



The Manufacturer reserves the right to modify product specification and data stated herein without prior notice.



Product Specifications

Model No.: GIGALITE- CR2032

1. SCOPE

This specification applies to the following 3.0v lithium button cell CR2032.

2. CHEMICAL SYSTEM: Li-Manganese Dioxide (Lithium perchlorate Electrolyte)

"GREEN LITHIUM BUTTON CELL - The Mercury test result<0ppm(0%)"

"GREEN LITHIUM BUTTON CELL - The Cadmium test result<0ppm(0%)"

"GREEN LITHIUM BUTTON CELL - The Lead test result<0ppm(0%)"

3. RATINGS

TABLE I:

ITEM		UNIT	SPECIFICATIONS	CONDITIONS	
Nominal voltage		V	3.0	Standard discharge	
Nominal capacity		mAh	210	Standard discharge	
Instantaneous short–circuit current		mA	≥ 250	Time≤ 0.5 second	
Off-load voltage		V	≥ 3.25		
Storage temperature		°C	-10~40		
Standard weight		g	3.0	Unit cell	
Service output	Initial	Standard	900 h		
		Minimum	800 h	Continuous discharge with	
	After 12 months storage	Standard	800 h	load $15k\Omega$, till $2.0v$ end-voltage	
		Minimum	750 h		

TABLE II:

ITEM	CONDITIONS	CHARACTERISTICS	
Thermal	Kept for 20 days at 60°C±3°C, then	Standard	800 h
durability	continuously discharge with 15kΩ load till 2.0v end-voltage	Minimum	700 h
Self-discharge rate	Stored for 12 months at normal temperature, then continuously discharged with $15k\Omega$ load till 2.0v end-voltage	≤ 5%	

4. PERFORMANCE AND TEST METHODS

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, 20°C~25°C; environmental humidity, 65±20%. Please refer to Table III

5. SUGGESTIONS AND CAUTIONS

- 5.1 Install batteries correctly.
- 5.2 Ensure the contact points to be clean and conductive.
- 5.3 Do not mix different types, different brands batteries to serve together.



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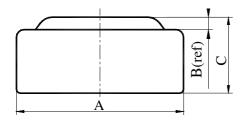
- 5.4 Do not heat, recharge the batteries.
- 5.5 Do not dispose of the batteries in fire.
- 5.6 Keep away from the small children, if swallowed promptly see doctor.
- 5.7Pay attention to the producing date.

TABLE III:

No	ITEM	TEST METHODS	STANDARED	
1	Dimensions	Using vernier caliper (accuracy≥ 0.02)	Diamete r	20.0 (-0.2) mm
		while avoiding short-circuit	Height	3.20 (-0.2) mm
2	Off-load voltage Using multimeter (accuracy≥ 0.25%) internal resistance≥ 1MΩ		≥ 3.25 v	
3	Instantaneous short-circuit current	Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour	≥ 250 mA	
4	Appearance	Eyeballing	Bright, clean, no rust, no leakage, And no flaw	
5	Capacity	Continuously discharge for 8 hours with load 15k, temperature at 20~25°C, humidity at 65±20% till 2.0v end-voltage (for fresh battery only: within 3 months)	≥ 900 h	
6	Vibration test	Put battery on the platform of the vibrations machine, start the machine and adjust the frequency form 10 times per minute to 15 times per minute. keep it running for an hour	Characteristics keep stability	
7	Leakage at high Stored under temperature (45°C) for 30 days temperature		Leakage rate≤ 1%	
8	Over discharge Test After 2.0v end-voltage, continuously discharged for 5 hours		No leakage allowed	

6. Warranty: 36 months shelf life after delivery.

7. NOMINAL DIMENSIONS



Dimensions	Unit: mm	
A	19.8020.00	
В	0.2(ref)	
С	3.003.20	